



**EPL 21347 POLLUTION
MONITORING REPORT,
MARCH 2020**

PARRAMATTA LIGHT RAIL

Parramatta
Connect

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Project number N81080

Document number: PLR1INF-CPBD-ALL-PE-RPT-000037

Revision date: 09/04/2020

Revision: A

Rev.	Date	Prepared By	Reviewed By	Approved By	Remarks
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1. Introduction

1.1. Background

Parramatta Light Rail is one of the NSW Government's major infrastructure projects being delivered to serve a growing Sydney.

Parramatta Light Rail Stage 1 ('Stage 1') will connect Westmead to Carlingford via Parramatta Central Business District (CBD) and Camellia. Stage 1 is expected to be operational in 2023.

Stage 1 will create new communities, connect great places and help both local residents and visitors move around and explore what the region has to offer. The route will link Parramatta's CBD and train station to a number of key locations, including the Westmead Precinct, the Parramatta North Growth Centre, the new Western Sydney Stadium, the Camellia Town Centre, the new Powerhouse Museum and Riverside Theatre arts and cultural precinct, the private and social housing redevelopment at Telopea, the Rosehill Gardens Racecourse and the three Western Sydney University campuses.

In summary, the key features of Stage 1 include:

- A new dual track light rail network of approximately twelve (12) kilometres in length, including approximately seven (7) kilometres within the existing road corridor and approximately five (5) kilometres within the existing Carlingford Line and Sandown Line, replacing current heavy rail services
- Sixteen (16) stops that are fully accessible and integrated into the urban environment including a terminus stop at each end of Westmead and Carlingford
- High frequency 'turn-up-and-go' services operating seven days a week from 5am to 1am. Weekday services will operate approximately every 7.5 minutes in the peak period between 7am and 7pm
- Modern and comfortable air-conditioned light rail vehicles, nominally 45 metres long and driver-operated, each carrying up to 300 passengers.
- Intermodal interchanges with existing public transport services at Westmead terminus, Parramatta CBD and the Carlingford terminus
- Creation of two light rail and pedestrian zones (no general vehicle access) within the Parramatta CBD along Church Street (generally between Market Street and Macquarie Street) and along Macquarie Street (generally between Horwood Place and Smith Street)
- A Stabling and Maintenance (SaM) Facility located in Camellia for light rail vehicles to be stabled, cleaned and maintained
- New bridge structures along the alignment including over James Ruse Drive and Clay Cliff Creek, Parramatta River (near the Cumberland Hospital), Kissing Point Road and Vineyard Creek, Rydalmere
- Alterations to the existing road network including line marking, additional traffic lanes and turning lanes, new traffic signals, and changes to traffic flows
- Relocation and protection of existing utilities
- Public domain and urban design works along the corridor and at Stop precincts

- Closure of the heavy rail line between Carlingford and Clyde
- Active transport corridors and additional urban design features along sections of the alignment and within Stop precincts
- Integration with the Opal Electronic Ticketing System (ETS)
- Real time information in light rail vehicles and at Stops via visual displays and audio.

An overview of Parramatta Light Rail Stage 1 route is shown in Figure 1-1.



Figure 1-1 Parramatta Light Rail Stage 1 Route

The Parramatta Light Rail is subject to environmental impact assessment under the Environmental Planning and Assessment Act 1979 (EP&A Act). It is classified as Critical State Significant Infrastructure (CSSI). The EIS assessed impacts for Parramatta Light Rail Stage 1 (Westmead to Carlingford). This covered the light rail and associated works including road enabling work.



Stage 1 received Infrastructure Approval from the Minister for Planning under Section 5.19 of the EP&A Act on 29 May 2018 (Critical State Significant Infrastructure Application SSI-8285), subject to the conditions provided in the Instrument of Approval, specifically Schedule B – Ministerial Conditions of Approval.

The Infrastructure Approval was subsequently modified under Section 5.25 of the EP&A Act on 21 December 2018 and 25 January 2019.

The planning approval, modifications and related environmental assessment documents are located at: http://majorprojects.planning.nsw.gov.au/index.pl?action=view_job&job_id=8285.

1.2.3 Stage 1 Delivery Strategy

Delivery of Stage 1 is achieved through the following five packages of work:

- **Enabling Works** (Package 1) – Local road network improvements including O’Connell Street and George Street (off-alignment)
- **Westmead Precinct Works** (Package 2) – Hawkesbury Road widening and demolition at Cumberland Hospital (east and west Campus)
- **Early Works** (Package 3) – Remediation of the Stabling and Maintenance (SaM) Facility
- **Infrastructure Works (Package 4) (the subject of this Report)** – Design and construction of civil works, public domain and light rail infrastructure up to road level/top of rail and to the top of the concrete slab at stops, including provision of utility services (excluding high-voltage power supply and cabling for rail systems), and decommissioning of the T6 Carlingford Line)
- **Supply, Operate and Maintain Works** (Package 5) – Design and construction of the light rail systems, high-voltage power supply and stops above slab level, the supply of light rail vehicles, and the design and construction of the SaM Facility, including all light rail operations, customer service and asset management.

Each package of work is to be delivered under separate contracts on behalf of the proponent Transport for NSW (TfNSW). While the packages will commence at different times under separate construction approvals, there will be periods during which the package works will overlap. The interactions between the packages are shown in **Figure 1-2**.

Parramatta Connect (the CPB Contractors and Downer EDI Works Joint Venture) has been engaged to deliver the Infrastructure Works. For construction, the Infrastructure Works are divided into portions and sub-portions, each of which is described in Table 1-1 together with significant environmental issues. The portions, light rail stops and precincts are depicted in **Figure 1-3**.

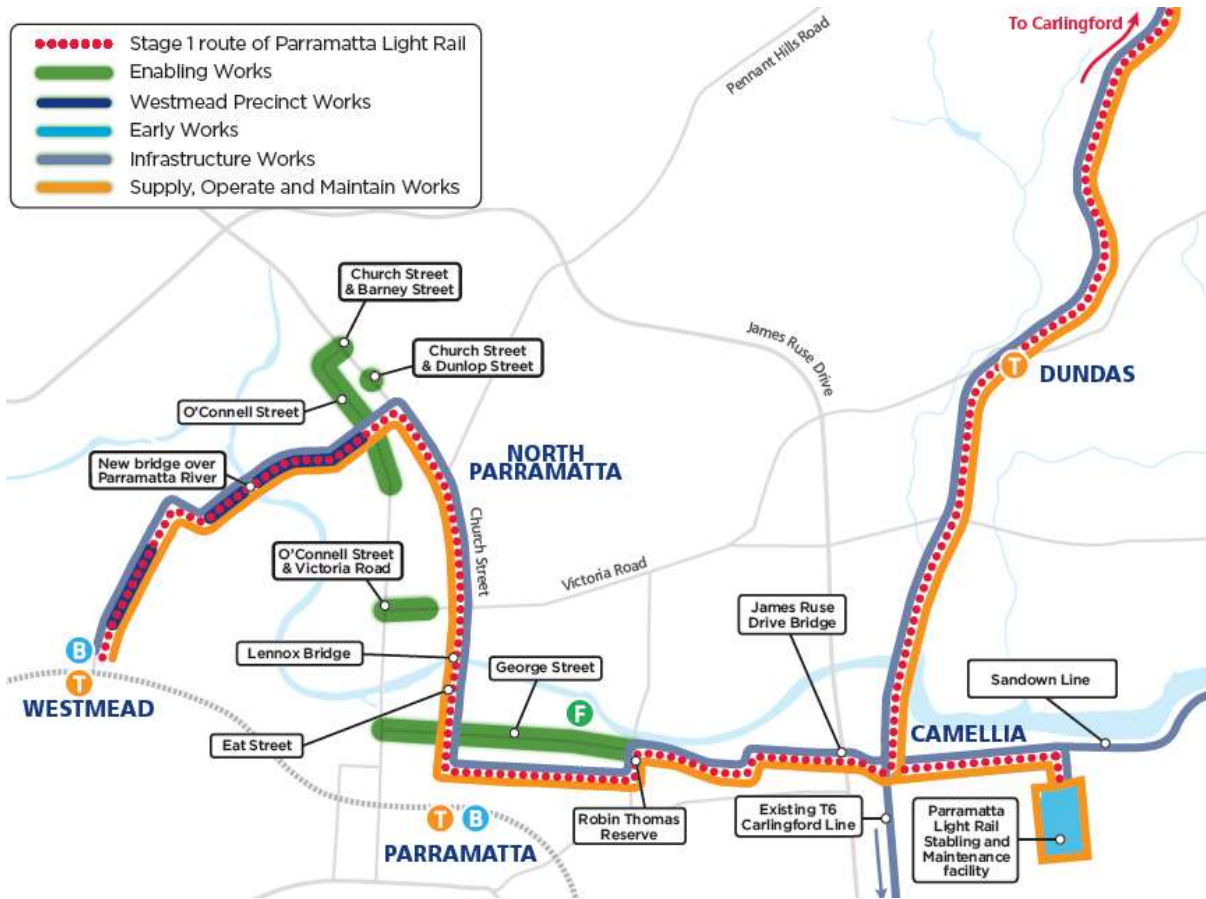


Figure 1-2 Parramatta Light Rail Stage 1 Delivery Strategy

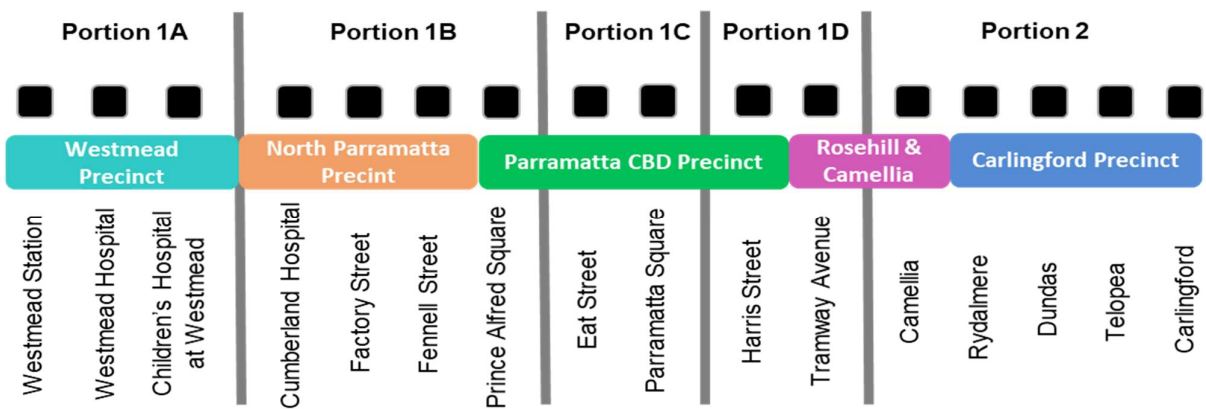


Figure 1-3 Infrastructure Works Portions, Precincts and Stations



1.2. Scope of this report

CPB Contractors Pty Limited have been issued an Environmental Protection Licence (EPL No. 21347) from the NSW Environment Protection Authority (EPA) for the Parramatta Light Rail Package 4 - Infrastructure Works on behalf of Parramatta Connect.

The EPL applies to the works approved under the Infrastructure Approval SSI-8285 associated with the delivery of Parramatta Light Rail Stage 1 Infrastructure Works (Package 4) under the operational control of Parramatta Connect. The EPL does not apply to other Parramatta Light Rail Stage 1 works packages.

This EPL Pollution Monitoring Report provides the results of all pollution monitoring required to be measured or monitored by the licensee of EPL 21347 as required by Section 66 of the *Protection of the Environment Operations Act 1997 (POEO Act)* and with reference to EPA Publication *Requirements for publishing pollution monitoring data* (Environment Protection Authority, 2013).

Table 1-1 provides a summary of the EPL 21347 details.

Table 1-1 Licence details

Licence Details	
Number:	21347
Copy of License	https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=177484&SYSUID=1&LICID=21347
Anniversary Date	03-January
Licensee	CPB Contractors Pty Limited
Premises	Parramatta Light Rail Stage 1 – Westmead to Carlingford, Package 4 Parramatta NSW 2123
Scheduled Activity	Railway activities - railway infrastructure construction



2. Reporting Requirements

Under the *POEO Act*, holders of environment protection licences (licensees) must publish or make pollution monitoring data available to members of the public.

The *POEO Act* Section 66 requires

“66 Conditions requiring monitoring, certification or provision of information, and related offences

(1) **Monitoring** The conditions of a licence may require—

(a) monitoring by the holder of the licence of the activity or work authorised, required or controlled by the licence, including with respect to—

(i) the operation or maintenance of premises or plant, and

(ii) discharges from premises, and

(iii) relevant ambient conditions prevailing on or outside premises,

and

(iv) anything required by the conditions of the licence, and

(b) the provision and maintenance of appropriate measuring and recording devices for the purposes of that monitoring, and

(c) the analysis, reporting and retention of monitoring data.

(2) **False or misleading information** A holder of a licence who supplies information, or on whose behalf information is supplied, to the appropriate regulatory authority under the conditions of the licence is guilty of an offence if the information is false or misleading in a material respect.”

The primary objective of the pollution monitoring reporting requirements is that members of the public have access to the results of all pollution monitoring (which a licence specifies must be carried out) in a way that is meaningful to them. Data for the Parramatta Light Rail Infrastructure Works is presented on a monthly sampling period.

The monitoring data that must be published and/or made available on request is any data that is obtained as a result of a monitoring condition on a licence that relates to air, water (surface or groundwater), noise and/or land pollution. The data to be published or provided is limited to data that relates to pollutants generated, discharged or emitted from the licensed premises.

The data is provided in tabular format that is easy for the general public to understand. Tables definitively display raw data values, while graphs and charts are useful for overviews and visualisation of long-term trends. Raw data will be provided upon request.

An upfront note will be included on the licensee’s website or in this report to explain why any data may appear to be missing because there is no discharge or the level of pollutant being below the detection level of the measurement instrument.

It’s possible from time to time that incorrect data may get published in good faith. As soon as practicable after the licensee becomes aware that the published pollution monitoring data is incorrect or misleading, licensees must then publish a correction log to correct this data that is incorrect or misleading (refer to **Section 4**).



Table 2-1 provides a summary of the pollution monitoring requirements of EPL 21347.

Table 2-1 EPL 21347 Pollution Monitoring Requirements

EPL Condition	Requirement	Report Reference
M1.1	Monitor and record hourly temperature, humidity, wind velocity and rainfall	Section 3.1 Appendix A-1
L4.8	Monitoring to validate the noise predictions for works undertaken outside of the standard construction hours as per the construction noise impact assessment	Section 3.2 Appendix A-2
M4.2	Noise monitoring of noise and vibration complaints	Section 3.2 Appendix A-2
M3.3	Noise and vibration monitoring as directed by an authorised officer of the EPA	Section 3.2 Appendix A-2
P1	Discharge of pollutants to water from nominated discharge points	Section 3.3 Appendix A-3
L2.4	Discharge from sediment basins solely as a result of rainfall measured as a result of rainfall exceeding the rainfall depth value	Section 3.3 Appendix A-3



3. Monitoring

Section 3 presents summaries of the monitoring programs completed in the reporting period from the 26 February to 25 March 2020.

Detailed monitoring results for each program are presented in the Appendices.

3.1. Meteorological Data

EPL Condition M1.1 requires Parramatta Connect to collect and store meteorological data. Meteorological data is not considered to be pollution data and therefore does not have to be published. However, the meteorological data is published with the pollution monitoring data to provide additional context to the water discharge pollution.

The meteorological observations are based data from Sydney Olympic Park AWS (Archery Centre) (station 066212) and Parramatta North (Masons Drive) (station 066124) from the 26 February to 25 March 2020 (29 days).

The total rainfall for the month of March was 88.4mm with 11 rain day (days with >1mm of rain). No rain days exceeded the 80th percentile (25.8mm) and the 85th percentile (33.1mm) design rainfall events.

A summary of the month's meteorological observations summarised in **Table 3-2**. A comparison between long term monthly means and recorded values can be found in **Figure 3-1** for rainfall and **Figure 3-2** for rain days >1mm. Detailed weather observations are presented in **Appendix A-1**.

Table 3-1 Weather Summary and Trigger Weather Events for March¹ 2020

Weather event	Forecast	Observation
Minimum temperature	12°C	10.4 °C
Maximum temperature	38°C	37.7 °C
Total rainfall	135.8mm	88.4mm
Number of days with rain (>1mm)	5 days	11 days
>80 th percentile (25.8mm) rain events	1	0 events
>85 th percentile (33.1mm) rain events	0	0 events
Flood warning / events	-	-
>25km/hr wind ²	6 days	21 days
>50km/hr wind	0 days	2 days

1. Weather summary based on data from the 26 February to 25 March (29 days).



2. Wind data from Sydney Olympic Park AWS (Archery Centre) {station 066212}. Weather data from Parramatta North (Masons Drive) {station 066124}.

Note: Red text in Observation column indicates observation greater than forecast.

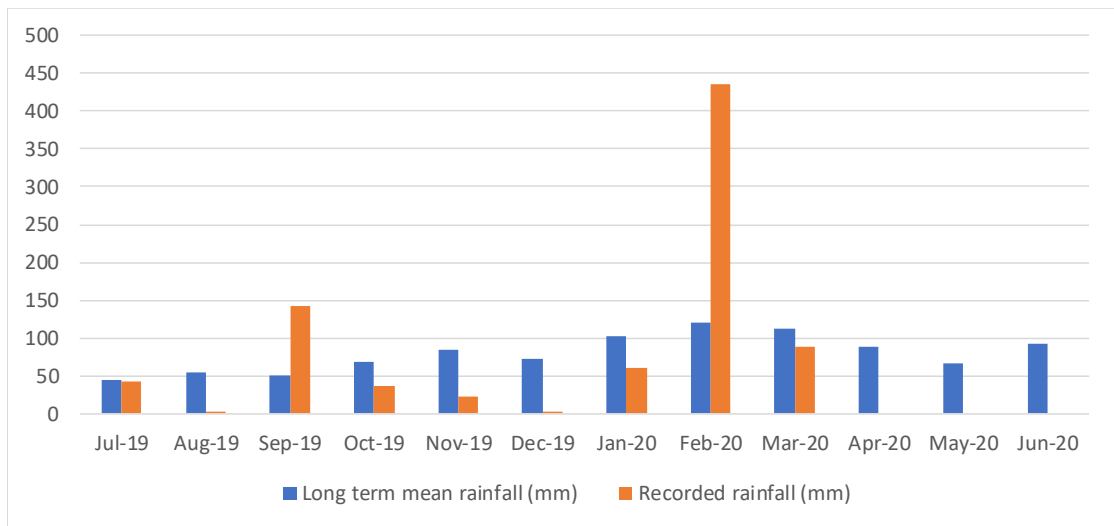


Figure 3-1 Monthly rainfall comparison

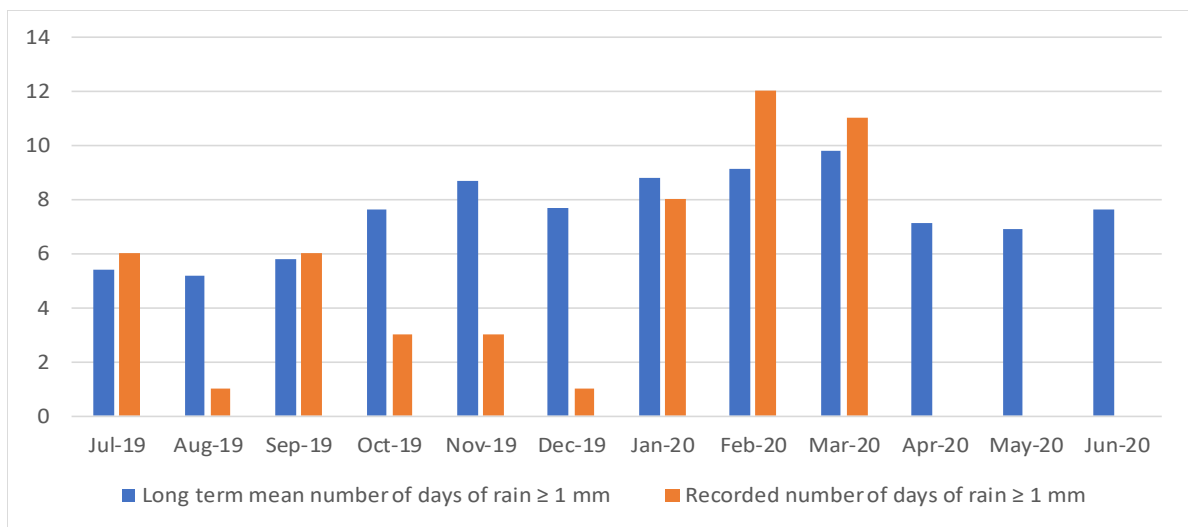


Figure 3-2 Monthly rain days comparison



3.2. Noise and Vibration

Noise monitoring is required by the follow conditions of EPL 21347:

- L4.8 Monitoring to validate the noise predictions for works undertaken outside of the standard construction hours as per the construction noise impact assessment
- M4.2 Noise monitoring of noise and vibration complaints
- M3.3 Noise and vibration monitoring as directed by an authorised officer of the EPA

Table 3-3 provides a summary of noise monitoring events completed in January 2020. Detailed noise monitoring results and comments are presented in **Appendix A-2**.

4. Table 3-2 Summary of noise monitoring March 2020

Date	Monitoring Location	Description
09/03/2020	181 Hawkesbury Road Westmead	OOHW Period 2: Pot holing to identify known services.
19/03/2020	Museum Gardens	OOHW Period 2: Non-Destructive Digging
19/03/2020	350 Church Street, Novotel	OOHW Period 2: Non-Destructive Digging
19/03/2020	137 Arthur Street	OOHW Period 2: Trenching

4.1. Discharge to water

The EPL discharge criteria apply to the sediment basins and settling containers referred to in condition P1.2 are the active basins and discharge points identified and located in the document titled "Parramatta Light Rail Package 4 Discharge Point Register" and maintained on electronic file EF19/29672. The active basins and discharge points during the reporting period are summarised in **Table A-3-1**.

Table A-3-2 provides a summary of the discharges by Parramatta Connect at the current active monitoring/discharge point or utilisation area that complied with condition L2.1. There were no discharges from these points during the reporting period.

Table A-3-3 provides a summary discharge events that occurred solely as a result of rainfall measured at the premises exceeding the design rainfall depth value for the corresponding discharge point. There were no discharge events as a result of rainfall exceeding the design rainfall depth value during the reporting period.



5. Correction log

It's possible from time to time that incorrect data may get published in good faith.

As soon as practicable after the licensee becomes aware that the published pollution monitoring data is incorrect or misleading, licensees must then publish a correction log to correct this data that is incorrect or misleading.

There are no matters included in the correction log for this reporting period.



Appendices

A-1 Weather Observations

Table A-1-1 Weather observations: Parramatta North (Masons Drive) {station 066124}.

Date	Temps		Rain	Temp	9:00 AM			
	Min	Max			RH	Cld	Dir	Spd
	°C	°C	mm	°C	%	8th	km/h	
26/02/2020	20.4	32	0.0	27.8	63	5	WNW	9
27/02/2020	18.5	25.4	0.6	20.7	73	7	SSW	4
28/02/2020	13.7	25.7	0.0	20.7	47	3	S	6
29/02/2020	18.3	27.2	0.0	20.4	81	3	SE	2
1/03/2020	16.2	31	0.0	23.0	83	3	NW	2
2/03/2020	16.5	37.7	0.0	28.0	45	3	NW	6
3/03/2020	19.4	21.3	0.0	20.4	81	8	SW	4
4/03/2020	17.9	25	19.8	20.4	99	8	E	6
5/03/2020	19.6	24.5	6.4	22.4	95	8	N	7
6/03/2020	20.6	28.3	20.4	24.4	85	2	WNW	6
7/03/2020	18.5	24.4	0.0	20.4	78	7	SSW	9
8/03/2020	15.8	22	10.4	17.2	98	8	S	6
9/03/2020	16.3		4	18.3	89	7	E	6
10/03/2020	13.8	23.5	2.6	17.3	97	6	SW	4
11/03/2020	13	24.8	0.0	19.4	79	0	SE	2
12/03/2020	14	25	0.4	19.0	90	5	NW	2
13/03/2020	12	27	0.0	18.5	78	1	W	2
14/03/2020	14	16.5	1.4	14.6	96	8	SSE	6
15/03/2020	10.4	20.5	12	16.4	72	3	SW	4
16/03/2020	14	22.4	5.8	16.5	99	8	SW	6
17/03/2020	14		2.6	17.8	87	5	SW	6
18/03/2020	11.2	27.5	0.0	18.5	88	0	NW	2
19/03/2020	14	32.7	0.0	20.5	77	4	W	6
20/03/2020	17	34.8	0.0	26.0	55	5	NW	4
21/03/2020	15.2	25.2	0.0	20.6	80	0	W	4
22/03/2020	16.2	29.8	0.0	21.5	75	4	NW	6
23/03/2020	17.3	22.5	0.0	19.3	64	7	SW	6
24/03/2020	13.5	22	2.0	18.0	87	7	NE	4
25/03/2020	15	25.9	0	19.8	79	7	NNW	2



Table A-1-2 Wind observations: Sydney Olympic Park AWS (Archery Centre) {station 066212}.

Date	Max Wind Gust			9:00 AM		3:00 PM	
	Dir	Spd	Time	Dir	Spd	Dir	Spd
		km/h	local		km/h		km/h
26/02/2020	SSE	56	20:07	NNW	7	NW	11
27/02/2020	E	31	17:04	S	6	NNE	11
28/02/2020	SE	37	15:29	S	9	SE	19
29/02/2020	ENE	28	17:16	WSW	6	ENE	11
1/03/2020	NE	30	16:21	WNW	4	E	17
2/03/2020	S	61	15:30		Calm	W	11
3/03/2020	SSE	24	11:24	SSW	7	SSE	11
4/03/2020	ENE	30	13:13		Calm	ENE	13
5/03/2020	NE	24	3:05	NNE	6	NE	6
6/03/2020	SSE	35	16:59	WNW	9	SE	20
7/03/2020	SSE	35	16:06	SSW	11	SSE	19
8/03/2020	SE	28	15:13	S	9	SE	17
9/03/2020	SE	33	13:46	E	4	SSE	17
10/03/2020	E	24	16:58	W	2	SE	15
11/03/2020	SE	31	11:23	WNW	6	ESE	20
12/03/2020	E	30	11:07		Calm	E	19
13/03/2020	NE	37	11:37		Calm	ESE	17
14/03/2020	SSE	43	5:59	SSE	19	W	7
15/03/2020	SE	37	16:27	W	6	ESE	9
16/03/2020	SSE	41	13:10	SW	7	SSE	17
17/03/2020	ESE	20	14:02	SW	6	SE	13
18/03/2020	E	22	15:28	SW	6	SE	13
19/03/2020	NW	19	11:00		Calm	N	4
20/03/2020	NW	44	15:13	WNW	7	E	4
21/03/2020	ESE	31	12:35		Calm	NW	20
22/03/2020	SSE	56	20:07	NNW	7	NW	11
23/03/2020	ESE	35	13:18	S	9	SE	9
24/03/2020	NE	26	16:05		Calm	E	9
25/03/2020	ESE	30	13:31		Calm	SE	15

Notes:

Blue text indicates a rain event greater than 1mm of rain.

Orange text indicates a rain event greater than the 80th percentile of 25.8mm, and a wind speed of greater than 25km/hr

Red text indicates a rain event greater than the 85th percentile of 33.1mm, and a wind speed greater than 50km/hr.



A-2 Noise Monitoring Results



Table A-2-1 Noise monitoring results

Date	Time	Out of Hours Works Period	Construction Activity	Attended or Continuous	Parameter	Predicted (dBA)	Specified Noise Limit	Recorded Value	Analysation method	Exceedance of Specified Noise Limit (dBA)	Construction noise exceedance	Comments
09/03/2020	22:00:00	OOHW Period 2	Pot holing	Attended	Leq, 15min (dBA)	78	78	71	Monitor	-7	No	Construction Moderately Intrusive: Pot holing – Vacuum truck in use Light vehicles parked and switched off Traffic control set up Detour signs in place – Jessie St and Hainsworthy Hawkesbury Rd closed W/E bound
19/03/2020	23:35:00	OOHW Period 2	NDD	Attended	Leq, 15min (dBA)	81	>76	75.2	Monitor	-0.8	No	Construction highly intrusive: Pedestrians talking near museum
19/03/2020	23:16:00	OOHW Period 2	NDD	Attended	Leq, 15min (dBA)	80	>76	76.9	Monitor	-3.1	No	Construction highly intrusive: Van truck in operation 7m away Dominant noise of rocks/rubble being sucked up and hitting metal pipe No suction just humming No hammering or suction ~65 dB 6:35, suction of rocks started up ~ 79.80dB
20/03/2020	00:15:00	OOHW Period 2	Trenching	Attended	Leq, 15min (dBA)	69	>71	63.6	Monitor	-7.3	No	Construction Moderately Intrusive: Excavator~ 67 dB 9:00 tipper leaving ~69dB 11:40 tipper reversing w/ squawker 68-70 dB Day marker with no other construction noise 10m = 63dB

Notes:

Standard hours: Monday to Friday 7:00 am to 6:00 pm. Saturday 8:00 am to 1:00 pm

Standard hours:

OOHW Period 1 is defined as:

- a) 6:00pm to 10:00pm (evenings) Monday to Saturday
- b) 7:00am to 8:00am and 1:00pm to 10:00pm (day & evening) Saturday and
- c) 8:00am to 6:00pm Sunday and public holidays (days).

OOHW Period 2 is defined as:

- d) 10:00pm to 7:00am (nights) Monday to Saturday and
- e) 6:00pm to 8:00am (nights) Sundays and public holidays.



A-3 Discharge to water

Table A-3-1 Parramatta Light Rail Package 4 Discharge Point Register (electronic file EF19/29672) (Rev 2, submitted 16 March 2020)

ID	Construction Status	Easting	Northing	AMG Zone	Reference System	Description of location of discharge point	Catchment name	Name of nearest waters	Direct discharge to waters	Total catchment area of basin (hectares)	Basin size (operational) m3	Blue Book Criteria	Location description	Date added	Revision Added
A2.01	Active	315250	6256918	56	MGA	Existing stormwater pit on Church St, 40m north of the Phillip St intersection	Parramatta River	Parramatta River	No	N/A	N/A	N/A	N/A	24/02/2020	Rev 1
A2.02	Active	315231	6256879	56	MGA	Existing stormwater pit on the northwest corner of the intersection of Phillip St and Church St	Parramatta River	Parramatta River	No	N/A	N/A	N/A	N/A	24/02/2020	Rev 1
A2.03	Active	315229	6256871	56	MGA	Existing stormwater pit on the southwest corner of the intersection of Phillip St & Church St	Parramatta River	Parramatta River	No	N/A	N/A	N/A	N/A	16/03/2020	Rev 2
A3.18	Active	317220	6256123	56	MGA	Discharges into existing stormwater line at Sandown Lane flowing towards Parramatta River.	Parramatta River	Parramatta River	Yes	N/A	N/A	N/A	Connection of new drainage to existing stormwater	24/02/2020	Rev 2
A3.19	Active	317845	6256065	56	MGA	Discharges into existing stormwater line at Sandown Lane flowing towards Parramatta River.	Parramatta River	Parramatta River	Yes	N/A	N/A	N/A	Connection of new drainage to existing stormwater	24/02/2020	Rev 2
A3.3	Active	317527	6257074	56	MGA	On eastern side of rail corridor adjacent to WSU. Discharges into Vineyard Creek.	Parramatta River	Vineyard Creek	Yes	N/A	N/A	N/A	Outlead headwall for new drainage	24/02/2020	Rev 2
A3.4	Active	317518	6257093	56	MGA	On western side of rail corridor adjacent to WSU. Discharges into Vineyard Creek.	Parramatta River	Vineyard Creek	Yes	N/A	N/A	N/A	Outlead headwall for new drainage	24/02/2020	Rev 2



Table A-3-2 Discharge water quality

Discharge monitoring Point ID	P1.2 Identification Number	Type of Monitoring Point	Type of Discharge Point	Date	Discharge Permit #	Oil and Grease (Not visible)	pH (6.5 - 8.5)	Total Suspended Solids (31 milligrams per litre)
A2.01	1	basins and settling containers	Discharge water quality	nil	nil	-	-	-
A2.02	1	basins and settling containers	Discharge water quality	nil	nil	-	-	-
A2.03	1	basins and settling containers	Discharge water quality	nil	nil	-	-	-
A3.18	1	basins and settling containers	Discharge water quality	nil	nil	-	-	-
A3.19	1	basins and settling containers	Discharge water quality	nil	nil	-	-	-
A3.3	1	basins and settling containers	Discharge water quality	nil	nil	-	-	-
A3.4	1	basins and settling containers	Discharge water quality	nil	nil	-	-	-

Table A-3-3 Discharge occurs solely as a result of rainfall measured at the premises exceeding the design rainfall depth value

Discharge monitoring Point ID	P1.2 Identification Number	Type of Monitoring Point	Type of Discharge Point	Date	Rainfall Event	Comments
A2.01	1	basins and settling containers	Discharge water quality	nil	-	-
A2.02	1	basins and settling containers	Discharge water quality	nil	-	-
A2.03	1	basins and settling containers	Discharge water quality	nil	-	-
A3.18	1	basins and settling containers	Discharge water quality	nil	-	-
A3.19	1	basins and settling containers	Discharge water quality	nil	-	-
A3.3	1	basins and settling containers	Discharge water quality	nil	-	-
A3.4	1	basins and settling containers	Discharge water quality	nil	-	-

